



**Tufts Medical Center  
Lemuel Shattuck Hospital**



***Transitional Year Program***

**Educational goals and objectives by rotation:**

**Rotation name: Vascular Surgery**

**Location: Tufts Medical Center**

**Program Director: Jeffrey Cooper, M.D.**

**Length of Rotation: 4 weeks**

**MEDICAL KNOWLEDGE**

**GOAL:** The TY resident will achieve detailed knowledge of the evaluation and management of the vascular patient.

- Describe the basic anatomy and physiology of the vascular system
- Describe the clinical manifestations of the following vascular disorders: obstructive arterial disease, aneurysmal arterial disease, thromboembolic disease, chronic venous insufficiency and lymphatic obstruction, portal hypertension, congenital vascular disease
- Discuss the principles of non-invasive laboratory diagnosis; know the distinction of the role and limitation of the vascular laboratory
- Discuss the principles of the Doppler ultrasound in preparation for performing bedside arterial and venous Doppler testing
- Discuss the principles of care for ischemic limbs
- Identify the hemodynamic and pathophysiology of claudication, transient ischemic attack, stroke, mesenteric angina, angina pectoris, renovascular hypertension and arteriovenous fistula

**PATIENT CARE**

**GOAL:** The TY resident will provide patient care that is compassionate, appropriate and effective for the treatment of the vascular patient.

- Evaluate the patients for vascular disease
- Assess patients' vascular systems using appropriate skills in history-taking and clinical examination

- Demonstrate skill in basic surgical techniques, including knot tying, exposure and retraction, knowledge of instrumentation, incisions, closure of incisions and handling of graft material
- Perform the preoperative assessment and postoperative care of patients undergoing major vascular surgical procedures
- Apply appropriate vascular suture techniques
- Participate in surgery for varicose vein disease
- Participate in amputation with specific attention to demarcation levels and control of toxicity
- Demonstrate competence in using the vascular clamp or vessel loop to obtain vascular control of diseased or traumatically occluded blood vessels
- Participate in thromboendarterectomy and thrombectomy

## **INTERPERSONAL AND COMMUNICATION SKILLS**

**GOAL:** The TY resident will demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and professional associates.

- Develop and apply effective communication strategies to interact with patients and families from a diverse background
- Educate and counsel patients on the service
- Gather essential information from patients; and accurately document patient encounters
- Interact with nurses, residents, attending surgeons, and ancillary staff to achieve the health-related goals of the patient

## **PROFESSIONALISM**

**GOAL:** The TY resident will demonstrate a commitment to carrying out professional responsibilities adherence to organizational and ethical principles, and demonstrate sensitivity to a diverse patient population.

- Demonstrate appropriate dress and decorum while on duty; conversations in public places to be free of patient information. Respond to criticism and correction with calm and attentive demeanor
- Use and know the chain of command on the resident service
- Relate as a team member with other residents from other departments

## **PRACTICE-BASED LEARNING AND IMPROVEMENT**

**GOAL:** The TY resident will investigate and evaluate his or her own patient care practices appraise and assimilate scientific evidence and improve patient care practices.

- Conduct the daily management of patients in the units
- Describe and apply ICU techniques (radial catheters, Swan Ganz) under supervision and the management of critically ill patients
- Understand how to read radiographs of chest and abdomen, arteriogram, CT, MRA
- Develop surgical technical ability to do Mi-grade vascular operations
- Recognize and understand how to monitor thrombolytic therapy
- Demonstrate proficiency in venous access procedures

### **SYSTEMS-BASED PRACTICE**

**GOAL:** The TY resident will demonstrate an awareness of and responsiveness to the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value.

- Interact with other services and support personnel and efficiently utilize their expertise
- Review the costs associated with providing surgical care to patients with vascular disorders